





Radio Frequency Systems

High quality, portable and fixed wireless transmission of speech or music over FM radio frequency. Delivering superb intelligibility and crystal-clear amplified sounds.



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Radio frequency systems provide clear sound for assistive listening in small or large public venues, and in tour guide applications.

Contacta RF assistive listening system ideal for when sound sources need to be wirelessly transmitted across large areas, sending signals through walls, ceilings or other obstacles regardless of building characteristics.

Transmitters are connected to an audio source such as a microphone or PA system and send signals to compatible RF receivers. Our system can utilise up to 42 channels simultaneously with a range of up to 100 metres in buildings.

Receivers can be used with Inductive Neck Loops, allowing users to receive the sound directly in their T Coil enabled hearing instrument.



Radio Frequency Rack Transmitter

RF-TXRM-865 / RF-TXRM-915

The Radio Frequency Rack Transmitter, available in either 865MHz or 915MHz (USA/AU) frequencies. It uses internationally approved FM frequencies to transfer clear sound to portable receivers (see page 10).

It is designed to provide wireless and amplified assistive listening in large venues from a sound source to compatible RF receivers using FM radio waves.

Applications:

Designed to deliver wireless FM assistive listening in large public venues and for interpretation.

- Lecture Halls
- Auditoriums
- · Meeting Rooms
- Conferences
- · Places of Worship

What's in the Box:

- · Radio Frequency Stationary Transmitter
- Power Supply Adaptor
- 19" Rack Mount Bracket
- Earth (Ground) Cable for Optional Use
- Fixing Screws
- TNC Rod Antenna

Compatible Accessories

- Portable Radio Frequency Receiver (see page 10)
- Remote Antenna Kit (see page 19)

Physical Data:

Dimensions	Height – 51mm (2") Width – 215mm (8.46") Depth – 210mm (8.26")
Weight	1.25kg (2.75lbs)
Finish	Mixed

Product Code:

Radio Frequency Rack Transmitter	RF-TXRM-865/915
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See next page for Technical Data.

Carrier Frequency Range	865MHz (UK/EU) / 915MHz (USA/AU) (country dependent)
RF Output Power	Hi: 18 dBm Mid: 13 dBm (country dependant) Lo: 10dBm
Antenna	TNC connector
Headphone Output	200mW @ 32 ohm
Inputs	Mic in: 3.5mm & 6.3mm Aux in: RCA Loop in: 6.3mm Incoming Bluetooth™ streaming
Mic/Line Inputs	Mic Input: -30dBv Line Input Limits: 10dBv Unbalanced/Balanced connections available
XLR Connector	Level= \-30dBv Balanced Connection
Mic-In Connectors	Mono/Stereo Aux out-Mono Mic Level30dBv
Connectors	AUX IN = Audio Source MIC IN = Dynamic Mics PH PWR = Electret Mics
Outputs	Earmic out: 3.5mm, stereo Aux out: RCA Loop out:6.3mm
Wireless Coverage	Approx. 100 meters (line of sight @ Hi power)
Power Requirements	100 ~ 240 V AC / 12 V DC, 1A switching power
Frequency Response	70Hz - 12kHz
Channel	42 channels are accessible on the 865MHz version. 25 channels are available on the 915MHz version
Display	Backlit OLED
Software	Smart programming software for fast set-up of multiple receivers

Front / Rear Panels:







Portable Radio Frequency Transmitter RF-TX1-865 / RF-TX1-915

The compact Portable Radio Frequency Transmitter sends signals of speech or music to compatible portable receivers (see page 10) across selectable channels. There are two versions that respectively work on 865MHz or 915MHz (USA/AU) frequencies.

Transmission range is up to 100 metres in open field, and there is no limit to the number of receivers which can be used per group. The transmitter utilises digital audio transmission technology. A micro-USB power supply provides fast and simple charging and the unit can also be charged using the drop-in RF-DC24 charging case (see page 17).

Applications:

Ideal for situations where listeners require clear sound for tour guidance or private group interactions.

- Museums
- Historical Sites
- Exhibitions/Events/Conferences
- Outdoor Tours

What's in the Box:

- Portable Radio Frequency Transmitter
- Lanyard
- Micro-USB Power Cable
- Lapel Microphone (see page 13)
- 2 x AA 1.2V 2100mAh rechargeable (NiMH) batteries

Compatible Accessories

- Portable Radio Frequency Receiver (see page 10)
- 24 Bay Charging Case (see page 17)
- Ear-Worn Microphone (see page 12)
- Discreet Microphone (see page 14)

Emission Modulation	4GFSK
Latency	<4 ms@HQ
Mic Capsule	Condenser
Antenna	Flexible antenna
RF Output	High: <10 mW for 863~865, 915~928MHz Low: 2~6mW
Mic Input	3-pole Mini XLR
Audio input	3.5mm
Batteries	2 x AA 1.2V 2100mA rechargeable (NiMH)
Battery Life	>8 hours
Operation Range	>50 meters
Frequency Response	70Hz - 12kHz
Channel	42 channels are accessible on the 865MHz version. 25 channels are available on the 915MHz version
Display	White Backlit LCM
Channel lock	Auto-Lock for selected channel
Software	Smart programming software for fast setup of multiple receivers

Physical Data:

Dimensions	Height – 88mm (3.46") Width – 64mm (2.51") Depth – 29mm (1.14")
Weight	113.5g (0.25lbs)
Finish	Mixed

Portable Radio Frequency Transmitter	RF-TX1-865/915
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Portable Radio Frequency Handheld Transmitter

RF-TXHH-865/ RF-TXHH-915

This hand-held microphone has an integrated multi-frequency transmitter and UHF technology. It is for use with Portable Radio Frequency Receivers [see page 10], with two versions available that respectively work on 865MHz or 915MHz (USA/AU) frequencies.

This microphone transmits sound wirelessly and directly to groups of receivers programmed on the same channel, making it ideal for use in lectures, events and educational venues.

Applications:

Ideal for use in education venues or when a speaker addresses a group of people directly.

- Museums
- Educational Venues
- Community Centres
- Lecture Halls
- Entertainment Venues

What's in the Box:

- Portable Radio Frequency Handheld Transmitter
- 2 x AA Alkaline batteries

Compatible Accessories:

- Portable Radio Frequency Receiver (see page 10)
- Micro-USB Power Cable [USB-M100]

Emission Modulation	4GFSK
Latency	<4 ms@HQ
Mic Capsule	Dynamic
Antenna	Flexible antenna
RF Output	High: <10 mW Low: <1 mW
Battery	2 x AA alkaline / rechargeable NiMH battery (rechargeable batteries not supplied, alkaline included)
Battery Life	>8 hours
Operation Range	>50 meters
Connectors	Micro-USB charge port
Channel	42 channels are accessible on the 865MHz version. 25 channels are available on the 915MHz version

Physical Data:

Dimensions	Diameter - 49mm (1.9") Height - 258mm (10.1")
Weight	270.5g (0.59lbs)
Finish	Grey

Portable RF Handheld Transmitter	RF-TXHH-865/915
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Portable Radio Frequency Receiver

RF-RX1-865 / RF-RX1-915

A lightweight Portable Receiver is compatible with all Contacta RF-865/915 transmitters. The wide frequency bandwidth of this system makes it ideal for transmission of both speech and music, delivering crystal-clear intelligible sound.

The system offers fast programming of up to 42 selectable channels and there is no limit to the number of receivers that can be used in each group. The receiver can be used for either assistive listening or tour guide applications .

Recharging the RF-RX1 is guick and easy using the RF-DC24 drop-in charging case.

We offer two versions of that respectively work on 865MHz (UK/EU) or 915MHz (US/AUS) frequencies.

Applications:

Ideal for assistive listening, tour guidance or interpretation.

- Museums
- Historical Sites
- Exhibitions/Events/Conferences
- Outdoor Tours
- Assistive Listening

What's in the Box:

- Portable Radio Frequency Receiver
- Lanvard
- Micro-USB Power Cable
- Earphones
- 2 x AA 1.2V 2100mAh Rechargeable Batteries

Compatible Accessories

- Portable Radio Frequency Transmitter (see page 6)
- Stationary Radio Frequency Transmitter (see page 4)
- Portable Radio Frequency Handheld Transmitter (see page 8)
- 24 Bay Charging Case (see page 17)
- Inductive Neck Loop (see page 16)
- Headphones (see page 15)



Emission Modulation	4GFSK
Antenna	Flexible antenna
Headphone Output	3.5mm
Line Output	3.5mm
Betteries	2 x AA 1.2V 2100mAh rechargeable (NiMH)
Battery Life	>10 hours
Frequency Response	70 Hz - 12kHz
Channel	42 channels are accessible on the 865MHz version. 25 channels are available on the 915MHz version
Display	White Backlit LCM
Channel Lock	Auto-Lock for selected channel
Software	Smart programming software for fast setup of multiple receivers

Physical Data:

Dimensions	Height – 88mm (3.46") Width – 64mm (2.51") Depth – 29mm (1.14")
Weight	109.5g (0.24lbs)
Finish	Mixed

Portable Radio Frequency Receiver	RF-RX1-865 / 915
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Ear-Worn Microphone for use with RF-TX1

RF-TX1-EM

This ear-worn microphone is compatible with the Portable Radio Frequency Transmitter [RF-TX1-865/915]. It comes with a 1.2m cable and mini-XLR connector. Enables handsfree communication with clear sound using a high quality Condenser microphone capsule.

Applications:

Ideal for tour guidance or private group interactions.

- Museums
- Historical Sites
- Exhibitions/Events/Conferences
- Outdoor Tours

Physical Data:

Dimensions	Height - 60mm (2.3") Width - 32mm (1.25") Depth - 160mm (6.2") Lead Length - 1.2m (47.2")
Weight	10.5g (0.02lbs)
Finish	Beige

Technical Data:

Connector	Mini-XLR
Power Supply	1 ~ 10V / DC phantom voltage
Transducer Type	Condenser capsule
Polar Pattern	Unidirectional
Sensitivity	-47 ± 3 dB @f = 1 kHz, S.P.L = 1Pa, 0 dB=1V / 1pa -67 ± 3 (0dB = 1 V/microbar)
Frequency Response	70 - 16kHz

Ear-Worn Microphone	RF-TX1-EM



Lapel Microphone for use with RF-TX1

RF-TX1-LM

This lapel microphone is compatible with the Portable Radio Frequency Transmitter (see page 6). It includes a tie clip and 1m cable with a mini-XLR connector. It enables handsfree communication with clear sound using a high quality Condenser microphone capsule.

Applications:

Ideal for tour guidance or private group interactions.

- Museums
- Historical Sites
- Exhibitions/Events/Conferences
- Outdoor Tours

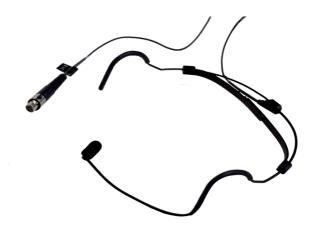
Physical Data:

	Mic: Height – 11.4mm (0.44") Width – 11.4mm (0.44") Depth – 24.7mm (0.97") without clip
Dimensions	Clip: Height - 6.5mm (0.25") Width - 44.2mm (17.4") [40.5mm (1.59") without clip]
	Lead Length - 1000mm (39.3")
Weight	24g (0.05lbs) with clip
Finish	Black

Technical Data:

Connector	Mini-XLR
Power Supply	1 ~ 5V / DC phantom voltage
Transducer Type	Condenser capsule
Polar Pattern	Unidirectional
Sensitivity	-50 ± 3 dB @f =1 kHz, S.P.L=1 Pa, 0 dB=1V / Pa
Frequency Response	180 Hz - 17kHz

Lapel Microphone	RF-TX1-LM



Discreet Headset Microphone

RF-HM

This microphone is compatible with the RF-TX1 Portable Radio Frequency Transmitter (see page 6). It's unique design offers improved comfort for long term use. The two ear hooks and it's rear-head frame makes it comfortable and leightweight, assisting in effortless handsfree communication, using a high quality Condensor microphone Capsule.

Physical Data:

Dimensions	Capsule Housing Diameter - 5mm (0.19°) Capsule Housing Length - 6mm (0.23°) Boom Lengnth - 110mm (4.33°) Lead Length - 1300mm (51.18°) Lead Diameter - 1.5mm (0.05′)
Weight	30 ± 5g (0.06lbs ± 0.01lbs)
Finish	Black

Technical Data:

Connector	Mini-XLR
Power Supply	1 ~ 10V / DC
Polar pattern	Unidirectional
Impedance	1,200 Ω ± 30% (at 1k Hz)
Sensitivity	-70 ± 3 dB (0 dB=1V / microbar)
Frequency Response	70 ~ 16k Hz

Discreet Headset Microphone	RF-HM
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Headphones

RF-HP1

Overhead headphones compatible with the RF-RX1 Portable Radio Frequency Receiver (see page 10). It has a standard 3.5mm audio jack and a 1m lead.

Physical Data:

Dimensions	Height – 175mm (6.80") Width – 150mm (5.09") Depth - 15mm (0.59") Lead Length - 2 metres (78.7")
Weight	48g (0.10lbs)
Finish	Black

Technical Data:

Impedance	32Ω
Frequency Response	20-20000Hz
Sensitivity	104dB
Connection	3.5mm audio plug

In-Ear Headphones	RF-HP1
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Inductive Neck Loop

RF-NL1

The Inductive Neck Loop is a compact listening device compatible with our RF-RX1 Portable Radio Frequency Receiver (see page 10). When connected to the receiver, the RF-NL1 will produce a magnetic field that lets users with Telecoil-enabled hearing instruments receive the sound directly in their hearing aids.

Physical Data:

Dimensions	Loop Cable Length - 800mm (31.5") Loop Cable Diameter - 4mm (0.15") Cord Cable Length - 450mm (17.7") Cord Cable Diameter – 3mm (0.12")
Weight	57g (0.12lbs)
Finish	Black

Technical Data:

Connector	3.5mm plug (stereo)
Input Power	250mW

Inductive Neck Loop	RF-NL1
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24 Bay Charging Case for Portable Receiver/ Transmitter

RF-DC24

This charging case is for use with the Portable RF Transmitter (see page 6) and Portable RF Receiver (see page 10) and can hold up to 24 devices in an upright position. The case is portable and charging is a simple drop-in connection.

The built-in digital panel enables fast and easy programming of multiple devices, including data-copy and channel-sync for compatible transmitters and receivers. This allows fast setup from a master device.

Applications:

Ideal for situations where listeners require clear sound, tour quidance or interpretation.

- Museums
- Historical Sites
- Exhibitions/Events/Conferences
- Outdoor Tours
- Assistive Listening

What's in the Box:

- 24 Bay Charging Case for RF Receiver/ Transmitter
- Power Supply Unit
- USB Drive with PC Programming Software

Charging Pockets	24	
Charging Current	$350 \pm SO$ mA, per pocket	
Charging Time	4 ~ 6 hours @ 2100 mAh NiMH rechargeable batteries	
Charging Algorithm	PWM control, -/'iV and TIMER power-off detector	
Power Requirements	AC100 ~ 240 V switching power adapter (50/60Hz), DC12 V, 5A	
Ambient Temperature	0C ~ 40C (32F-104F)	

Physical Data:

Dimensions	Height – 437mm (17.2") Width – 266mm (10.4") Depth – 170mm (6.6")
Weight	4.69kg (10.3lbs)
Finish	Mixed (Silver/Black)
Construction	High-grade metalic protective case with inner-padding

24 Bay Charging Case	RF-DC-24



Remote Antenna Kit for Stationary Transmitter

The Remote Antenna Kit is for use with the Radio Frequency Stationary Transmitter RF-TXRM (see page 4).

This kit allows secured repositionaing of the TNC antenna at the front of an Audio Rack, for improved signal strength.

Physical Data:

	Long Ear Length – 241 mm (9.5") Height – 44 mm (1.7") Width – 40 mm (1.6")
Dimensions	Short Ear Length - 26 mm (1.02") Height - 44 mm (1.7") Width - 40 mm (1.6")
	Steel Plate Depth – 1.6 mm (0.06")
	Lead Length - 1500 mm (59")
Weight	295g (0.65lbs)

Technical Data:

Material of short/long ear	Steel plate with coating
Connector of lead	TNC (male), TNC (female)

Remote Antenna Kit R	RF-TXRA
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In-Ear Headphones

RF-IEH

The In-Ear Headphones are compatible with the Portable Radio Frequency Receiver (see page 10). It has a standard 3.5mm audio jack and a 1m lead.



Physical Data:

	Cable Length – 1050mm (41.3") Diameter – 1mm (0.04")
Dimensions	Ear buds Height – 30mm (1.18") Depth – 15mm (0.59") Width - 18mm (0.71")
Weight	10.5g (0.02lbs)
Finish	Black

Technical Data:

Jack	3.5mm (3 pins)
Power Rating	2 mW
Impedance	32Ω
Maximum Input Power	8 mW
Output S.P.L.	100 ± 5 dB SPL (0db=20 μPa) at 1KHz with Vrms input=178 mV
Frequency Response	10~10,000Hz

Product Code:

In-Ear Headphones RF-IEH

Rechargeable Battery RF-BATT-AA

1.2V 2100mAh AA rechargeable (NiMH) battery for use with the Portable RF Transmitter (see page 6) and Portable RF Receiver (see page 10).



Physical Data:

Dimensions	Length – 50mm (1.9") Depth –13mm (0.5")
Weight	27.6g (0.06lbs)

Technical Data:

	Chemical system	NiMH
	Voltage	1.2 V
ĺ	Capacity	2100mAh

Rechargeable Battery RF-BATT-AA

Additional Spare Parts:

Single Rechargeable Battery 2100mAh for RF-TX1/RX1	RF-BATT-AA
Belt Clip for RF-TX1/RX1	RF-CLIP
Lanyard for RF-TX1/RX1	RF-LAN
Micro USB Cable for RF-TX1/RX1/TXHH	USB-M100
2-Port USB Plug	PLUG-USB-UK-2
4-Port USB Plug	PLUG-USB-UK-4



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